

2006



The 31st Annual



Trenton Computer Festival

**IT Professional Seminars
Friday April 21, 2006
9am – 5pm**

Vendors, Flea Market, Talks, & Special Events

**Saturday, April 22, 10am - 5pm
Sunday, April 23, 10am – 4pm**
Flea Market opens 1 hour earlier both days

**At
The College of New Jersey**

PROGRAM BOOK

TCF 2006 Steering Committee

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Emily Weiss	Publicity TCNJ
Erik Wendt	Special Exhibits, IEEE/ACM

The Trenton Computer Festival is an annual event sponsored by TCF Inc. a non-profit 501(c)(3) Educational Organization, comprising the following non-profit organizations:

ACGNJ - Amateur Computer Group of New Jersey, Inc. (www.acgnj.org)

TCNJ - The College of New Jersey (www.tcnj.edu)

CESOP - Computer Education Society of Philadelphia (www.cesop.org)

IEEE/ACM - Princeton Central Jersey Section & joint ACM/IEEE Computer Society Chapter (www.ewh.ieee.org/r1/princeton-centraljersey)

NYACC - New York Amateur Computer Club (www.nyacc.org)

Show Manager - MarketPro, Inc.

Amateur Radio Information & License Testing

Members of the Delaware Valley Radio Association will be on hand on Saturday in the Brower Student Center (BSC) and Sunday in the Recreation Center (RC) to answer questions on Amateur Radio and provide information on obtaining an Amateur (Ham) Radio license. For those wishing to take license exams for all amateur grades, license tests will be given on Saturday at 11 am and 1 pm in room BSC-212, and Sunday at 11 am in Room RC-H. Those planning to take exams should be present at the start of the testing period, have a photo ID and their Social Security Number and be prepared to pay a fee of \$14. More information on Amateur Radio can be found at <http://www.arrl.org/hamradio.html>.

TCF – 2006 Banquet

Saturday April 22, 2006 at 6:00pm
TCNJ Student Center – Room BSC-202E
Banquet Tickets - \$25
Purchase in Recreation Center on Saturday



Dr. Greg Olsen
Banquet Speaker

Subject:
Entrepreneurship

TCF-2006
Proceedings of Talks
CD available for sale in lobby - \$10
Contents

The Apollo Guidance Computer: Architecture And Operation
Public Policy Update: Clarifying The Federal Role In Ensuring Cybersecurity
VoIP For Dummies
Will Your Next Computer Be An HDTV?
Exploring Digital Video
Great Photos Printing, Through Color Management
Alternating Pictures In "Pseudo-Realtime" Using Windows SDK
Graphical Positioning Systems
Introduction To C++
C++ Advanced Features
Introduction To Java
Java Advanced Features

Also includes archive of all TCF papers from years 2001 thru 2006



The second oldest computer club in America welcomes you to our general meetings. The meetings are held on the second Thursday of each month at NYU's Main Building (Silver Building) at the corner of University Place and Waverly Place in Greenwich Village. The meeting starts at 7:00 PM and generally ends around 9:00 PM. The meeting opens with announcements and random access (a technical Q & A) where you can get help from club experts. This is followed by the monthly presentation. You can always get the latest information and meeting location at <http://www.nyacc.org>.

A "New Users" meeting is usually held concurrently for those who need help or have basic questions about using or buying a personal computer. The New York Amateur Computer Club sponsors a number of special interest groups that also have monthly meetings.

For more details on the general meeting, special interest group, and other NYACC activities, please visit our website www.nyacc.org or send us an e-mail at nyacc@nyacc.org.



The Personal Computer Show

WBAI-FM 99.5 New York
Wednesdays 8:00 PM

Joe King and co-host Hank Kee along with author Alfred Poor, webmaster Michael Horowitz, and book reviewer Olivia Whiteman bring you the latest happenings in the world of personal computing: news, reviews, discussion of trends and industry guests along with problem solving, security alerts, buying and upgrading hints.

At 8:30 PM call in (212-209-2900) to join the discussion or to ask technical support questions. Often called the "computer user group of the air", the Personal Computer Show has been acclaimed by the Computer Press Association as the "best in computer radio" in America.

If you can't pick up our signal from the Empire State Building, you can hear us worldwide, streamed over the Internet on either www.wbai.org or www.2600.com or subscribe to our Podcast at iTunes.

New York's only award winning computer radio broadcast
Over 20 years of serving the tri-state (NY-NJ-CT) community

www.pcradioshow.org

pcradio@pcradioshow.org

Keynote Speaker

Dr. Greg Olsen

My Voyage to the International Space Station

Saturday April 22, 2006 at 2:35 PM to 3:30 PM
Brower Student Center - Room 202W



Dr. Olsen was the third private citizen to orbit the earth on the International Space Station (ISS). He participated in several experiments on board the ISS. He helped study the response of the human body to the microgravity environment. Dr Olsen will touch of these and other ISS scientific experiences, and will also emphasize that science and technology form a solid basis for a successful career.

Greg Olsen was the third private citizen to orbit the earth on the International Space Station (ISS). After training for five months (900 hours) at the Yuri Gagarin Cosmonaut Training Center in Moscow, he launched on a Russian Soyuz rocket TMA-7 on October 1, 2005 with Cosmonaut Valeri Tokarev and Astronaut Bill McArthur (Expedition 12). He then docked to the ISS on October 3, and returned to earth on Soyuz TMA-6 on October 11 with Cosmonaut Sergei Krikalev and Astronaut John Phillips (Expedition 11). He performed over 150 orbits of the earth and logged almost 4 million miles of weightless travel during his 10 days in space.

After an illustrious career as a research scientist and entrepreneur, Greg is now president of GHV Ventures in Princeton, NJ where he manages his “angel” investments, South African winery, Montana ranch, and performs numerous speaking engagements to encourage children –especially minorities and females- to consider careers in science and engineering. He is active in the New Jersey Technology Counsel (NJTC), NJTC Venture Fund, Institute of Electronic and Electrical Engineers and the NJ Commission on Science and Technology.

Greg received a BS in Physics (1966), a BSEE and MS in Physics (1968) from Fairleigh Dickinson University, then was awarded a Ph.D. in Materials Science from the University of Virginia (1971). He performed post-doctoral studies at the Univ. of Port Elizabeth (South Africa), taught elementary physics classes, and then worked as a research scientist at RCA Labs (Sarnoff Center) from 1972-1983. He developed vapor phase epitaxial crystal growth of optoelectronic devices, including laser diodes and photodetectors for fiber optic applications based on the material indium gallium arsenide (InGaAs). He was awarded 12 patents, wrote over 100 technical papers, co-authored several book chapters and has given numerous invited lectures to both technical and trade journal audiences. Greg is an IEEE LEOS Fellow and the first recipient of the prestigious IEEE Aron Kressel award.

Greg founded EPITAXX, a fiber-optic detector manufacturer in 1984 together with Vladimir Ban. It was sold in 1990 for \$12 million. He then founded Sensors Unlimited, a near-infrared camera manufacturer in 1992 with Marshall Cohen. Sensors was sold to Finisar Corp. for \$600 million in 2000, repurchased by the management team in 2002 for \$6 million, then sold again to Goodrich, Corp. in 2005 for \$60 million.

Greg is active in many civic organizations including Trenton Big Brothers and Sisters, Trenton Boys and Girls Club, Trenton Soup Kitchen, Princeton Historical Society, Custer Battlefield Preservation Committee and Fairleigh Dickinson University and University of Virginia Alumni Associations. In his spare time he enjoys golf, country and western music and dancing, opera and horseback riding.



At The College of NJ

BSC = Brower Student Center, RC = Student Recreation Center, SB = Social Sciences Bldg.

TCF-2006 Saturday Talks & Forums — 22 April 2006

Room →	Room BSC-210	Room BSC-211	Room BSC-202W	Room BSC-202E	Room RC-D	Room RC-E
Saturday	WWW	Digital Photography	Video	Internet+	Technology	Education
10:15am to 11:10am	Web Design with Style Sheets <i>J. Wetterling</i>	Introduction to Digital Photography <i>B. Achuff</i>	iTunes for Podcasting & Vidcasting <i>S. Libes</i>	VoIP for Dummies <i>J. Budelis</i>	The Apollo Guidance Computer <i>F. O'Brien</i>	Getting Started with PCs and the Internet <i>H. Hinitz</i>
11:20am to 12:15pm	Podcasting & Vidcasting <i>C. Cavallari</i>	Great Photo Printing <i>T. Brown</i>	DVD Video Editing (Part 1) <i>D. Ferguson</i>	Will Your Next Computer be an HDTV? <i>A. Poor</i>	Computers in Amateur Astronomy <i>A. Andrea</i>	Best Web Sites 2006 <i>E. Kaplan</i>
12:25pm to 1:20pm	Job\$\$\$ from the Internet <i>D. Hsu</i>	Introduction to Photoshop CS2 <i>S. Mochalla</i>	DVD Creation— (Part 2) <i>D. Ferguson</i>	The Many Faces of Google <i>J. May</i>	Software Defined Radio - Evolution of Flexible Radio Architectures <i>J. Jesson</i>	Computer-Aided Dieting <i>D. Libes</i>
1:30pm to 2:25pm	Spams & Scams <i>R. Amidon</i>		Putting Video on DVDs <i>C. Walker</i>	Blogging for Fun, Profit or Influence <i>J. Deutsch</i>	What are Patents? <i>A. Carlis</i>	The First Computer Club: RESISTORS <i>C. Kagan</i>
2:35pm to 3:30pm	Featured Keynote Speaker: Greg Olsen, Research Scientist & Entrepreneur, who was the third private citizen to visit the International Space Station, will speak about "My Voyage to the ISS" in BSC-202W					
3:40pm to 4:35pm	VoIP Using Asterisk PBX <i>J. Mikusi</i>	Buying a Digital Camera <i>J. Freedman</i>	Digital Video <i>L. Rysinger</i>	iTunes for iDiot <i>D. Ciotti</i>	What's New in Video Game Machines <i>R. Amidon</i>	Reporting/Defending Computer Crime <i>J. Henninger</i>

TCF-2006 Sunday Talks & Forums — 23 April 2006

Room →	Room RC-D	Room RC-E	Room RC-F	Room RC-G	Room RC-H	Recreation Center RC
Sunday	Internet	Applications	Technology	Software/ Networks	Amateur Radio	Exhibits
10:30am to 11:30am	Project Management <i>D. Hsu</i>	Controlling the World with PICs <i>P. Bergsman</i>	The Apollo Guidance Computer <i>F. O'Brien</i>	Introduction to Java <i>M. Redlich</i>	 Ham Radio License Testing and Information 11am to 2pm In Room H of the Recreation Center	Special Exhibits and Demos Historic Wireless Technologies Robots Electronic Music Digital Imaging (Cameras and Video) Multimedia Computing
11:40am to 12:40pm	Best Web Sites 2006 <i>E. Kaplan</i>	Buying a Digital Camera <i>J. Freedman</i>	What's Next for Robot Hobbyists? <i>AS. Dilliplane</i>	Java Advanced Features <i>M. Redlich</i>		
12:50pm to 1:50pm	The Many Faces of Google <i>J. May</i>	VoIP for Dummies <i>J. Budelis</i>	Produce Your Own Podcast <i>M. Smith</i>	iTunes for iDiot <i>D. Ciotti</i>		
2:00pm to 3:00pm	Ensuring Cyber-Security <i>D. & A. Mihram</i>	Make Your Own Printed Circuit Boards <i>P. Bergsman</i>	Using the Eclipse Development Environment <i>B. Burd</i>	Introduction to Digital Photography <i>B. Achuff</i>		

12 Mar'06L-f

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At
The College of NJ
Ewing, NJ

TCF-2006 Saturday Talks & Forums

Room →	Room RC-F	Room RC-G	Room RC-H	Room SB-103	BSC-Lobby/ Rec Center-RC
Saturday	Hardware	Software	Special	Amateur Radio	Exhibits
10:15am to 11:10am	Make Your Own Printed Circuit Boards <i>P. Bergsman</i>	Pictures in Pseudo-Realtime with SDA <i>R. Pla</i>	Project Management <i>D. Hsu</i>		Special Exhibits and Demos Historic Wireless Technologies Robots Electronic Music Digital Imaging (Cameras and Video) Multimedia Computing
11:20am to 12:15pm	Introduction to USB Port Development <i>J. DeGood</i>	Open Source Software <i>J. LeMasney</i>	Neural Network Stock Trading Systems <i>D. Fishbein</i>	Ham Radio License Testing and Information 11am to 3pm In Room 103 of the Social Sciences Bldg.	
12:25pm to 1:20pm	Controlling the World with PICs <i>P. Bergsman</i>	Using the Eclipse Development Environment <i>B. Burd</i>	Beyond the Internet <i>L. Sragow</i>		
1:30pm to 2:25pm	Antique Computing <i>E. Koblentz</i>	Introduction to C++ <i>M. Redlich</i>	Web Site Development using DHTML & CSS <i>M. Barlow</i>		
2:35pm to 3:30pm	Featured Keynote Speaker: Greg Olsen, Research Scientist & Entrepreneur, who was the third private citizen to visit the International Space Station, will speak about “My Voyage to the ISS” in BSC-202W				
3:40pm to 4:35pm	GPS How it Works. How to Use it. New Develop. <i>C. Lewart</i>	C++ Advanced Features <i>M. Redlich</i>	Ajax and Web 2.0 <i>M. Barlow</i>		Exhibits (Continued)

Building Abbreviations:

BSC
Brower Student
Center

RC or Rec
Student Recreation
Center

SB
Social Sciences
Bldg.

Saturday Poster Sessions

Saturday Special Events:

12 Mar'06R-f

TALKS & FORUMS

Saturday April 22, 2006

Room BSC-210 – World Wide Web

10:15 am to 11:10 am

Web Design with Style Sheets

Joseph Wetterling

Abstract: Not familiar with CSS? Attend the “Web Design with Style Sheets” presentation for a crash course! Cascading Style Sheets can provide surprisingly sophisticated web site designs without great sacrifices in bandwidth, speed, or accessibility. This presentation will review several style sheets from small additions to complete designs, and demonstrate how to make them and others a reality for your website.

Bio: Joseph Wetterling has been involved in adult IT and business education since 1997, as a course developer, instructor and speaker. He currently works as a project manager in software and web development in Moorestown, NJ.

11:20 am to 12:15 pm

Podcasting & Vidcasting: or How We’re Changing the Entertainment Industry

Chris Cavallari, New Jersey Podcasters Association

Abstract: Podcasting has become a hot topic over the past year, and with good reason. The format, which uses RSS to automatically download audio content to a user’s computer, has brought freedom of speech to a whole new level. Ordinary average guys (and gals) are now able to switch on their mics and broadcast their thoughts to anyone willing to listen. And people are listening. However, many would-be producers are finding that learning the ins and outs of pod- and vidcasting is not so easy to grasp. In this session, members of the New Jersey Podcasters Association will not only demonstrate setting up a pod- or vidcast, but also delve into how the formats are changing the way the entertainment industry is - or should be - doing business.

Bio: Chris Cavallari has been working in television, video, and film for 11 years as a cameraman, lighting director, video editor, and grip. By day he is the Lead Television Studio Technician for an Internet Webcast TV Network; by night, he writes and directs films & podcasts for his company Filmosity Productions and produces the podcast “The Martini Shot: Moviemaking for Beginners.” In June 2005, Chris founded the New Jersey Podcasters Association, the premier group of

podcast producers in the Garden State, dedicated to the education about and promotion of podcasting.

12:25 pm to 1:20 pm

Job\$\$\$ from the Internet

Donald Hsu, Dominican College

Abstract: Iraqi war, hurricane Katrina, Japan recovery, new chancellor in Germany, Dow all time high, yes, the economy is back in full steam ahead! Eighty percent of the jobs you get today are from the Internet: 1. Accounting due to Sarbenes Oxley Act; 2. Application Developer for COBOL, C++, C#, Java; 3. MS SQL server, IBM DB2, Oracle 10g/11i, Sybase; 4. Networking security Checkpoint/Cisco; 5. Systems as UNIX/Linux, Windows; and 6. Business intelligence, project management, global finance, and sales/marketing of tech product/services. With the decline in computer majors, there are even more job openings. Bring a resume, and you will get a free review by the speaker!

Bio: Donald Hsu has been a professor and a management consultant. He taught 70 subjects from Accounting to UNIX to 7100+. Donald is a paid consultant with 5 CEOs on global finance and E-Commerce projects. He has started and sold three firms, and has traveled to 53 countries (33 in Europe). He also has global connections to 1000 managers.

1:30 pm to 2:25 pm

Spams & Scams

Roger Amidon, DX Computer Company

Abstract: Roger has been running his own mail servers for the past 5 years, and has been observing the flow of spam email and scam emails from a unique perspective. Roger will discuss some of the methods to reduce the spam, and how to spot the scams.

Bio: Roger has been involved with computer technology for over 30 years. He was one of the “Pioneers” during the early days of personal computers. He invented the “Z80” board for the Altair computer as well as many other products. Roger has been developing games for almost 15 years. Oh, and he doesn’t just make games, he also enjoys playing them!

3:40 pm to 4:35 pm

VoIP - The Asterisk PBX for Home or Business

Jimi Mikusi, Information Architects, iKONG LLC

Abstract: To the casual consumer it appears that VoIP was just conceived, but it has been incubating for years. Its maturity is expressed in the Asterisk PBX. Asterisk is free open source software that can be downloaded from the web. It makes it possible to run a complete PBX on a personal computer providing all the features of a traditional PBX, and more. It does voice over IP (VoIP) in many protocols, and can inter-operate with almost all standards-base telephone equipment using a relatively inexpensive computer interface card. Its true power comes to life when Asterisk is "trunked" with services like Free World Dialup (FWD) and the FWDOUT networks. FWD functions much like Skype allowing fellow users to make free phone calls, but it also interfaces to most of the 1-800 networks. The speaker will show how to set Asterisk up on a personal computer and the advantages of doing this.

Bio: Jimi Mikusi is a veteran netizen with over 15 years experience ranging from CGI developer, Systems/Network Administrator, Security Administrator, Java Developer, and Embedded Systems Programmer. He runs an Information Architecture Consultant business, helping small businesses find creative ways to facilitate the flow and distribution of data to their users.

Room BSC- 211 – Digital Photography

10:15 am to 11:10 am

Introduction to Photography in the Digital Age

Bill Achuff, User Group Alliance/Achuff Photography

Abstract: A wide ranging discussion of digital photography related topics: how to shop for a digital camera, to how to use it to its fullest potential, to cell phone photography and Internet photo sharing services. The terminology surrounding digital photography will be explained in a simple and easy to understand manner. Bill will also explore converting old photos from film, slides or print to digital and how to convert digital photos into works of art.

Bio: Bill is a photographer for Journal Register, publishers of more than thirty local and regional daily, weekly and monthly newspapers. He has tested and reviewed dozens of cameras for a variety of publishers including MacDesign. He has written articles for Photoshop User and other photography magazines. He has also presented training sessions for a variety of software applications, which digital photographers and artists typically use when working with photos.

11:20 am to 12:15 pm

Great Photos Printing, through Color Management

Thomas G. Brown

Abstract: Your photographs look good on your camera's LCD. They look even better on your computer monitor after

your work on them in Photoshop. But, when you try to print your photos, on an inkjet printer, the color does not look quite right. In fact, sometimes it is horrible! If this is your situation, this overview will help you understand how color management can lead to better looking digital prints. Topics to be covered include: 1) What is color management anyway? 2) Matching papers, printer and inks, 3) Acquiring ICC profiles, and 4) Configuring Photoshop CS2 to use Color Management.

Bio: Thomas Brown has a BS from Ithaca College in "Applied Audio, Visual Performing Arts" and a M.S. in Information Resources Management from Syracuse University. He has been making photographs for more than 25 years. For the past 20 years he has helped individuals, and organizations like the McCarter Theater, Bristol-Myers Squibb, and R. R. Bowker & Sons to get the best out of their personal computers. He hopes to help you do the same.

12:25 pm to 1:20 pm

Introduction to Photoshop CS2

Shabbir Moochalla, IEEE Princeton Central Jersey Section

Abstract: This talk will provide an introduction to Photoshop. It will provide details of the added features in Photoshop CS2, as vanishing point and bridge. Details of basic photo editing and painting and some of the advance features as layers and shortcuts will also be covered.

Bio: Shabbir Moochala is a past chairman of the Princeton Central Jersey Section of the IEEE and works as an electrical engineering in the space industry. Besides an interest in computers, he is highly involved with Photography both as an amateur and professionally in a part-time business.

1:30 pm to 2:25 pm

Linux on Laptops

Jimi Mikusi, Information Architects, iKONG LLC

Abstract: Despite the decreasing buzz about GNU/Linux taking over the desktop, it still proves to be an effective end-user operating system. But even less common is finding GNU/Linux on laptop computers. What contributes to this factor is a lack of cohesiveness among GNU/Linux distributions in what should and shouldn't work out of the box. The speaker feels that the education of end-users (marketing) is the key. It took hours of research to find all the utilities to bring his laptop to life. He has consolidated his findings, and will present all the utilities that can make GNU/Linux act just like a factory installed OS.

Bio: Jimi Mikusi is a veteran netizen with over 15 years experience ranging from CGI developer, Systems/Network Administrator, Security Administrator, Java Developer, and Embedded Systems Programmer. He runs an Information Architecture Consultant business, helping small businesses find creative ways to facilitate the flow and distribution of data to their users.

3:40 pm to 4:35 pm

Buying a Digital Camera

Jacob Freedman, WBZC-FM

Abstract: The goal of this open forum is to help TCF 2006 attendees buy their first, second, etc. digital camera. The decision making process of purchasing a digital camera is based on a series of varying personal need evaluation techniques and purchasing tricks that will lead you to a “hopefully” good digital imaging purchase and experience. The discussion will consist of mostly an extended Q&A, with possible “stop by” visits by Manufacturer Reps.

Bio: Jacob Freedman has worked with varying types of imaging devices for 30+ years and has an employment background in computer/consumer electronics sales and customer/technical support. Jacob is the host/engineer/producer of the radio show Sunday Morning Klezmer and Other Jewish Music, on WBZC-FM (88.9 FM/Chatsworth & 95.1 FM, in S. Jersey and S.E. PA and <http://www.angelfire.com/nj/WBZCFMsndymrnngklzmr/newjersey/njindex.html>), since 1995. He is also available online @ Z889.com. He uses a 1 GHz ATI eMac and some relatively inexpensive peripherals and software to produce his show. Jacob is the former, SIG coordinator for the South Jersey Apple/Mac User Group (SJAUG) and the SIG Leader for all things Audio.

Room BSC- 202W - Video

10:15 am to 11:10 am

Using iTunes for Podcasting & Vidcasting

Sol Libes, Amateur Computer Group of New Jersey

Abstract: Podcasts are radio-like programs, and vidcasts are video programs automatically distributed over the Internet by publishers to subscribers. They are time-shifted so that you can listen and view them when you want at your convenience. They are free, and one of the best free programs for listening and viewing them is Apple’s free iTunes program. They can be heard and viewed on your computer. They can also be transferred to portable devices such as the Apple iPod, an MP3 or video player. This presentation will show you how to find podcasts and vidcasts, how to subscribe to them, and how to view them with Apple iTunes.

Bio: Sol, a retired Professor of Electrical Engineering and Computer Programming, has a BA from the City University of New York and an MS from Rutgers University. Sol is the author of 16 books, most on Personal Computer hardware and software design. Many have been translated into foreign languages. He has authored over 300 magazine articles that have appeared in more than 30 different magazines and journals. From 1975-1981 he was a monthly columnist in Byte magazine (for many years the leading Personal Computer magazine). From 1979-1987 he was the Editor of Microsystems Journal (a publication for computer hardware and software designers). For many years he was a member of the IEEE Computer Standards Committee developing PC hardware interface standards. He also served as a consultant

to several companies on PC hardware and software design. Sol founded the Amateur Computer Group of New Jersey in early 1975. It is the oldest Personal Computer Club in the world. Sol served as ACGNJ President for many years. In 1976 Sol, together with Allen Katz, founded the Trenton Computer Festival. Sol is currently an instructor at Ewing SeniorNet <www.ewingsnet.com> teaching seniors how to get the most out of their personal computers.

11:20 am to 12:15 pm

Video Editing (Part 1)

12:25 pm to 1:20 pm

DVD creation (Part 2)

Douglas Ferguson, Intel Digital Enterprise Group

Abstract: The proliferation of inexpensive digital video cameras and faster systems has made many people interested in making their home videos into professional looking DVDs. This is a two-part session.

Part 1: Video Editing. We will walk through the capture of the video to the computer, editing, inserting a sound track, and getting it ready for the DVD.

Part 2: DVD creation. We will use an inexpensive DVD creation package and the video produced in Part 1 to make a professional looking DVD with menus and even some hidden “easter eggs” that you can send to friends and family.

Bio: Doug Ferguson is an avid video hobbyist. His goal is to rid the world of boring vacation and holiday videos. Doug has spoken four previous times at TCF, as well as the Intel Developer Forum, and Intel Communications Alliance Summit. In his day job, Doug is a Staff Technical Marketing Engineer with the Intel Digital Enterprise Group concentrating on communications applications.

1:30 pm to 2:25 pm

Creating DVD Video Using Sony’s DVD Architect Studio

Clarke Walker, Princeton PC Users Group

Abstract: This forum will be an introductory demonstration of taking a home video and putting it on to a DVD. Sony’s DVD Architect Studio will be used for the discussion. Architect Studio is a consumer product with some professional capabilities. If time permits, Microsoft’s Window Movie Maker and other related products will be discussed.

Bio: Clarke is President of the Princeton PC Users Group. He is a former consultant with Digital Equipment Corporation and Compaq Corporation.

3:40 pm to 4:35 pm

Exploring Digital Video

Lisa Rysinger, VIDE Productions, Inc.

Abstract: Lisa Rysinger will present select topics from her book, Exploring Digital Video, which is part of the Design Exploration Series for Thomson-Delmar Learning. The presentation is intended for the digital video novice and will

include an overview of current digital video technology, as well as a discussion of camera equipment, computer hardware, and popular editing programs. Topics will include how to evaluate digital video cameras, how to configure a computer editing system, and basic editing tips and techniques.

Bio: Lisa Rysinger is the owner of VIDE Productions, Inc., a digital video production company that produces everything from television commercials to DVDs. She is the author of Exploring Digital Video, now in its second edition. Her upcoming titles include Exploring DV Software on the Mac and Exploring DVD Authoring. She also serves as a subject matter expert in designing digital video curriculums, teaches college classes, and conducts group lectures and seminars.

BSC- 202E - Internet+

10:15 am to 11:10 am

VoIP For Dummies - How to Choose the best VoIP Plan

Joe Budelis, Persimmon Telecommunications

Abstract: Many think that VoIP is the future of voice phone service. The presentation will discuss what VoIP offers and, practically speaking, what it can do for you. A little history will be given and pros and cons of some current implementations will be indicated. At the very least, from this presentation, you will learn many of the things that you might wish to consider when you decide to go with a VoIP service.

Bio: Joe Budelis performed IT or Business consulting with such diverse assignments as Senior Financial Analyst, SAS Data Analyst, Business Infrastructure Manager, and Data Base Administrator. Currently, Joe assists businesses to find cost-effective Telecommunications solutions; primarily consulting on, and selling, such services as T1 and DS3 voice and data, high speed internet access and VoIP phone service. For more information see his blog at <http://joebudelis.blogspot.com>. Joe has a Harvard Ph.D. in Decision and Control.

11:20 am to 12:15 pm

Will Your Next Computer Be an HDTV?

Alfred Poor, Alfred Poor's HDTV Resource Center

Abstract: 15 years ago, buying a personal computer was a confusing challenge. You were confronted by bewildering jargon and acronyms, misinformed sales staff, conflicting claims, unfamiliar brands, and rapidly-changing technology, which made it difficult to make a knowledgeable decision about an expensive investment that had to last five to 10 years. These same circumstances describe the HDTV market. High-definition and digital television are about to dramatically alter what we watch for entertainment and education, as well as when and where we watch it. The personal computer revolution has made an entertainment revolution possible, as processing power has become nearly "too cheap to meter." And we have "personal computers" all over the house: personal video recorders, large-screen displays, home networks for entertainment content, and even fascinating new

uses for the Internet. This fast-paced presentation will explore everything from current and near-future display technologies to IPTV — Internet Protocol television — that will forever change our home entertainment landscape.

Bio: Alfred Poor is editor and publisher of "Alfred Poor's HDTV Resource Center" at <http://hdtvprofessor.com> where he writes a daily "HDTV Almanac." He is also author of the self-published "Professor Poor's Guide to Buying HDTV," which explains and compares HDTV display technologies. He is also Senior Research Associate with Pacific Media Associates, specializing in HDTV market research, and is Chairman of the Delaware Valley Chapter of the Society for Information Display. Alfred is co-host of the Personal Computer Show, heard Wednesday evenings on WBAI in New York, and online and via podcast at www.pcradioshow.org. He is also author of "Alfred Poor's Computer Cures", a question and answer column that has run in Computer Shopper for more than 12 years. He is a former Contributing Editor and Lead Analyst for Business Displays for PC Magazine, where he has been a freelance writer for more than 20 years.

12:25 pm to 1:20 pm

The Many Faces of Google

Joel May, UMDNJ Retired

Abstract: Google is arguably the most popular as well as the most powerful search engine available. But did you know that, in addition to searching the web, Google can do calculations, provide dictionary definitions, check airport and flight status, track FedEx and UPS packages, scan L.L. Bean catalogs and more? This presentation will show you how to use all the powerful features of this great search engine.

Bio: Joel has spent most of his adult life teaching, first at the University of Chicago and, subsequently, at UMDNJ. He's been using computers since 1961, the Internet since 1974, PCs since 1979, and the World Wide Web since 1994.

1:30 pm to 2:25 pm

Blogging for Fun, Profit, or Influence

Jon Deutsch, Opinion-Aided Publishing

Abstract: Blogging has become a modern "new media" phenomenon powered by the Internet and simple online software. Blogs can be used for fun, politics, business, news, and just about anything else you can dream up. It's an exciting time for the web, as blogs finally fulfill the original web promise: that anyone can create a "homepage." Political blogging is quickly changing the rules of the game in media, as some "bloggers" have become so influential that special press passes were issued to them at the Republican and Democratic conventions in 2004. This talk will take the audience through a brief history of blogging, show examples of different types of blogs available (including the presenter's blogs), and even provide instructions on how each member in the audience can create their own blog!

Bio: An Internet “guru” since 1992, Jon Deutsch has focused most of his career on harnessing The World Wide Web for fun and profit, and is currently Director of Global Web Communications for a local Fortune 1000 company. Jon is also skilled in personal electronics, music composition, political messaging, and globalization issues. Jon has a degree in Computer Science from the University of Delaware, and is pursuing his Masters in Organizational Dynamics at the University of Pennsylvania.

3:40 pm to 4:35 pm

iTunes for iDiot

David Ciotti, The College of New Jersey

Abstract: Downloading, ripping, burning, converting, transferring, everything you always wanted to know about iTunes but were afraid to ask.

Bio: David Ciotti works for the School of Engineering at The College of New Jersey. He has been the Macintosh Technical support for Mercer County Community College and has taught Troubleshooting and Maintaining your Macintosh for CompuMaster.

Room RC-D – Technology

10:15 am to 11:10 am

The Apollo Guidance Computer: Architecture and Operation

Frank O'Brien, Infoage Science/History Learning Center

Abstract: Perhaps the single spacecraft component that assured the success of the Apollo lunar missions was its guidance computer. Created in the 1960's when most computers filled an entire room, the Apollo Guidance Computer (AGC) was small, low power, and included capabilities that are advanced by today's standards. The Infoage Science and Learning Center has acquired an early AGC as part of its History of Computing Technologies collection. We will be discussing the computers hardware and software architecture, interfaces and how designers overcame its limitations. Additionally, we will cover the user interface and operations required for a flight from the Earth to the Moon. Attendees will get the opportunity to examine the AGC, its components and review its source code.

Bio: Frank O'Brien is a volunteer Apollo historian for NASA, primarily as a researcher for the Apollo Lunar Surface Journal, and is co-editor of the Apollo Flight Journal. He was responsible for preparing the Lunar Module Simulator and other artifacts for exhibition at the Cradle of Aviation Museum (Long Island, NY), and is an associate director at the Infoage Science/History Learning Center.

11:20 am to 12:15 pm

The Use of Computers to Assist Amateur Astronomers & Advance Amateur Astronomy

Alan Andrea, WebIntel-Systems Inc.

Abstract: This talk will focus on how computers can assist amateur astronomers advance their capabilities by the use of existing software and telescope control API's to get more out of their hobby and gain a deeper appreciation for astronomy. He will go into details on how software can be used to control telescopes, perform CCD astrophotography and how one can write their own software to automate their telescopes. Furthermore, he will delve into the possibility of networking telescopes together over the internet so that they can work in unison to do imaging of different parts of the sky and combine the results into one consolidated view. Then he will present CCD images taken of galaxies and nebulae and present a discussion of how CCD cameras work and the basics of computerized astrophotography.

Bio: Alan Andrea is a programmer at Lehman Brothers in NYC. He has 12 years of programming experience, a BS degree in computer science and has done graduate work in computer science as well. He has significant expertise in databases and java programming, and also has a keen interest in astronomy and applying computer science to other scientific disciplines.

12:25 pm to 1:20 pm

Software Defined Radio - Evolution of Flexible Radio Architectures

Joe Jesson, General Electric

Abstract: Software Defined Radio (SDR) is one of the fastest growing radio architectures. This talk will introduce SDR and some of the available commercial SDR radios (SDR14, DS100, WiFi, GPS Receivers) and hobbyist radios (SDR-1000 and the experimental Softrock V5). The evolution of the superhetrodyne receiver to a zero-IF design will be discussed with an emphasis of what can be demodulated through I/Q signals into A/D converters. The amazing myriad of software, which leverages the sound card will be reviewed, suggestions on improving sound card limitations will be discussed and a live demo presented.

Bio: Joe Jesson is Chief Technologist for GE's Asset Intelligence business and has extensive technical management experience for Motorola, Oak Technology, and BP Amoco. Joe holds multiple patents for Optical Sensors, Covert Patch Antenna, Membrane Switch, and Software innovations. He holds a Master's degree from DePaul University in Chicago and an MTS at the University of Chicago. Call also hold the amateur radio callsign KB9LZB.

1:30 pm to 2:25 pm

What is a Patent?

Anthony Carlis, Invent This! Inc.

Abstract: An overview of the patent process and what protection it affords the small inventor. In addition, all major types of intellectual property (IP) will be discussed including trademarks, copyrights and trade secrets.

Bio: Anthony R. Carlis, Esquire was a systems analyst for Unisys Corporation before becoming a patent attorney. Prior to Unisys, Anthony developed and programmed assembly line robots for Ford. In addition, he developed data acquisition (telemetry) hardware for NASA and the NSA.

3:40 pm to 4:35 pm

What's new in Video Game Machines?

Roger Amidon, DX Computer Company

Abstract: Roger has been involved with video games since the 8 bit Nintendo was released. Roger will demonstrate and discuss some of the latest machines - and games - coming soon to a "Toy's R Us" near you.

Bio: Roger has been involved with computer technology for over 30 years. He was one of the "Pioneers" during the early days of personal computers. He invented the "Z80" board for the Altair computer as well as many other products. Roger has been developing games for almost 15 years. Oh, and he doesn't just make games, he also enjoys playing them!

Room RC- E – Education

10:15 am to 11:10 am

Getting Started with Microcomputers, the Internet & Digital Photography

Herman Hinitz, HBH Associates

Abstract: This session is designed for people who would like to use computers (your grandmother, uncle or a friend), but need a friendly and understanding hand with getting started. The very basics will be covered together with applications as word processing (as a very sophisticated typewriter), electronic spreadsheets, the Internet, antivirus programs, firewalls, and even graphics and digital photography.

Bio: Herman Hinitz is an educator and consultant who has used diversified software and hardware in research, consulting, and publications. He has a background in education and is a long time supporter of the Trenton Computer Festival.

11:20 am to 12:15 pm

Best Web Sites 2006

Eva Kaplan, Pennington Computer School/ Computers + Kids Camp

Abstract: Eva's "Best Web Sites 2005" was incredible, but her "Best Web sites 2006" is awesome! She is continually researching for new, creative, definitive, well designed, interactive top sites, among the myriads of resources in the myriads of categories. TCF attendees have come to depend upon her yearly guide for up-to-date places in cyberspace and for search engines that exceed Google in many ways. Her guide will only be distributed to seminar attendees or those who contact her after April 23 at evakaplan@cs.com.

Bio: Eva is founder and director of Computers + Kids which has been providing Princeton Area youth exciting and enriching experiences with computers and technology for 24 years. She is a member of the New York Academy of Sciences and included in Who's Who in Science and Engineering. She is a supporter of the National Engineers Week's Future City Competition, Philadelphia Region, and is a longtime judge for Mercer Science and Engineering Club's Science and Engineering Fair.

12:25 pm to 1:20 pm

The New CAD: Computer-Aided Dieting

Don Libes, NIST - National Institute of Standards & Technology

Abstract: Computers are great at tracking data and making decisions. You aren't. Why not have your computer guide you on better food choices and weight loss – you already spend tons of time in front of the computer anyway, right? But there are hundreds of diets and hundreds of software programs and websites to help lose weight. Do any work? Is it really necessary to pay for them? Find out which ones work best and how to do it all on the cheap.

Bio: Don Libes is a computer scientist for the federal government. Don's interests are interaction automation and national broadband policy issues. He has written three books including "Obfuscated C and Other Mysteries".

1:30 pm to 2:25 pm

The R.E.S.I.S.T.O.R.S., First computer club of kids in the world

Claude Kagan

Abstract: A group of school children from Hopewell and Princeton area formed itself in rebellion against the lack of vision of the local educational system. They discovered that Claude had a mainframe computer in his barn in the early 1960's and chose to follow their interest in the computer there.

Bio: Claude Kagan is retired from AT&T and Western Electric. He has been a member of the IEEE since the late 1940s and has more than 50 technical publications. He received awards from both the IEEE and its Computer Society in 1984 for his many contributions to computing and his founding of the R.E.S.I.S.T.O.R.S.

3:40 pm to 4:35 pm

Reporting and Defending Computer Crime

Jef Henninger, Esq. , Jack Venturi & Associates

Abstract: A vast amount of computer crime goes unreported by both individuals and companies because the victim doesn't know how to proceed or is afraid to get involved. Learn what to do before you become a victim, who to call when you are one, what to expect as a witness before and at a trial, interacting with the prosecuting authority, and other tips to make the prosecution a success. On the opposite side of the law, defendants charged with computer crimes face an uphill battle at trial because most lawyers have a computer phobia which causes almost all cases to end in a guilty plea. These crimes are ensnaring more innocent people than any other type of crime. Learn how to protect yourself when you are suspected of committing a computer crime.

Bio: Jef Henninger is a criminal defense attorney with the firm of Jack Venturi & Associates in New Brunswick, New Jersey. He has been studying computer crime since 1990 and is the author of "Investigating and Prosecuting Cases Involving Hacking and the Computer Underground" and "The Trojan Horse Defense in Computer Crime Cases." He is also a frequent lecturer on the topics of computer forensics and reporting and defending computer crime. For more information, visit www.jackventurilaw.com.

Room RC-F – Hardware

10:15 am to 11:10 am

Making Printed Circuit Boards

Paul Bergsman,, Consultant

Abstract: Over the years, Paul Bergsman has developed a very inexpensive process for producing professional quality printed circuit boards. He uses non-crippled commercial "demo" software to 1) draw the circuit, 2) analyze the circuit, and 3) create the printed circuit board artwork. Paul has also developed several simple methods for reliable transfer of artwork to printed circuit boards.

Bio: Paul Bergsman is the author of "Controlling The World With Your PC", and was a Technology-Education teacher for La Salle College High School. Paul also operates a small business, which designs and manufactures printed circuit boards, and he occasionally teaches part time for the Community College of Philadelphia. He relaxes with folk music, folk dancing, amateur radio (N3PSO), cycling, or a good game of chess.

11:20 am to 12:15 pm

Introduction to Embedded USB Development

John DeGood, Lockheed Martin Advanced Technology Laboratories

Abstract: Once derisively referred to as the "Useless Serial Bus", today the Universal Serial Bus is ubiquitous, replacing

legacy serial, parallel, joystick, mouse, keyboard, and even audio ports. Many hobbyists and experimenters, unfamiliar with the intricacies of USB, have become frustrated as the legacy ports previously used to interface their projects disappear from modern PCs. This presentation will describe how to develop your own custom USB devices, with an emphasis on free or inexpensive hardware and software development tools. An end-to-end example will be presented using hardware and firmware from the Microchip PIC family of USB microcontrollers, and host drivers and application software for both Windows and Linux.

Bio: John DeGood is a member of the engineering staff at the Lockheed Martin Advanced Technology Laboratories in Cherry Hill. He previously performed networking and computing research at Sarnoff Corporation and developed analytical instruments at Hewlett-Packard (now Agilent). John is active in the local chapters of ACM and the IEEE Computer Society. He holds an Extra Class amateur radio license (callsign NU3E) and is Secretary of the David Sarnoff Radio Club.

12:25 pm to 1:20 pm

Controlling the World with PICs

Paul Bergsman, Consultant

Abstract: Microchip manufacturers produce small, stand-alone, microcontrollers called "PICs". They are very inexpensive and widely available. These vesicle chips can be configured as a tachometer, frequency counter, matrix-keypad decoder, tone generator, stepping motor controller, servo motor controller and lots more. Paul Bergsman uses slides and live demonstrations to explain PIC operations.

Bio: Paul Bergsman is the author of "Controlling The World With Your PC", and was a Technology-Education teacher for La Salle College High School. Paul also operates a small business, which designs and manufactures printed circuit boards, and he occasionally teaches part time for the Community College of Philadelphia. He relaxes with folk music, folk dancing, amateur radio (N3PSO), cycling, or a good game of chess.

1:30 pm to 2:25 pm

Antique Computing for Fun and Education

Evan Koblentz, Mid-Atlantic Retro Computing Hobbyists (MARCH)

Abstract: The "vintage computing" hobby is booming around the world. MARCH is a regional club devoted to fostering the hobby and preserving history. We're currently constructing a computer museum and we're hosting a major antique computing show in May 2006. Come to this lecture to learn all about the hobby and how you can get involved.

Bio: Evan Koblentz, is president of MARCH <http://www.marchclub.org> and is editor of the two year old Computer Collector Newsletter, <http://news.computercollector.com>.

3:40 pm to 4:35 pm

GPS - How It Works, How To Use It, New Developments

Cass Lewart, Freelance writer

Abstract: The Global Positioning System (GPS) provides navigational information for pilots, boaters, surveyors and hikers alike. An explanation of how GPS works and how triangulation is performed will be presented. A comparison of features found in various GPS receivers and their relative cost and importance will be discussed. Also explained will be the interface between a GPS receiver and a laptop or a PDA, and the importance of using a compass in conjunction with a GPS when hiking. Current GPS software and new GPS developments such as the Wide Area Augmentation System will be included. Cass will also talk about his favorite pass time - *geocaching*.

Bio: Cass Lewart is an electrical engineer and a long time computer hobbyist. He is the author of 10 books and numerous articles relating to personal computers, database programming and data communication. His most recent book "The Ultimate Modem Handbook" was published by Simon and Schuster. Cass is also a recent recipient of the ACGNJ Amateur of the Year award.

Room RC G – Software

10:15 am to 11:10 am

Alternating Pictures in "Pseudo-Realtime" Using the Windows SDK

Ray Pla, GetReal Software, Inc.

Abstract: Developing a real-time application generally requires control of the operating system at a system rather than an application level. In Windows NT this would mean a thread priority in the real-time range. Since current versions of NT generally have background processes running, which can require real-time event handling, they generally should not be interrupted. This application is designed to run with a thread-priority in the application range and still provide application response below 100 milliseconds.

Bio: Ray Pla's entire career has centered on professional software development and support, primarily with financial firms. He has done extensive work with IT infrastructure, involving software integration and supporting client-server and web-based communities. He has worked with various communications protocols and rolled-out a corporate e-mail system. He has also developed and rolled-out a custom corporate desktop system designed to provide end-user customer support.

11:20 am to 12:15 pm

An overview of Open Source Software

John LeMasney, Rider University & Princeton Linux UG

Abstract: This presentation gives a broad overview of the state of Open Source Software and its applications on the desktop and elsewhere. Several open source software projects will be examined in terms of practical use by the average computer user, system administrators and power users. Linux will be talked about, but open source products for other platforms are also discussed.

Bio: John LeMasney is the Manager of Instructional Technology at Rider University in Lawrenceville, NJ, and the Instructional Technology Coordinator for the Center for Innovative Instruction at Rider. John has achieved his LPI Level One Certification for Linux Administration, and is an active member of the Linux User's Group in Princeton (LUG/IP).

12:25 pm to 1:20 pm

Using the Eclipse Integrated Development Environment

Barry Burd, Drew University

Abstract: Eclipse is quickly becoming the tool of choice for people developing programs in Java, C++, and other languages. In addition, Eclipse hosts a variety of "non-geek" applications, including Instant Messaging, Process Scheduling, Business Intelligence Reporting and others. This session introduces you to Eclipse's code development tools, and shows you how to quickly and efficiently develop computer applications.

Bio: Barry Burd is a Professor in the Department of Mathematics and Computer Science at Drew University in Madison, New Jersey. When he's not lecturing at Drew University, Barry leads training courses for professional programmers in business and industry. He has lectured at conferences in America, Europe, Australia and Asia. He is the author of several articles and books, including "Java 2 For Dummies" and "Eclipse For Dummies," both published by Wiley.

1:30 pm to 2:25 pm

Introduction to C++

Michael Redlich, ExxonMobil Research & Engineering

Abstract: This seminar is an introduction to the C++ programming language. C++ is an object-oriented programming (OOP) language created by Bjarne Stroustrup at AT&T Labs. Since knowledge of OOP is vital in the development of robust applications, the OOP paradigm will be introduced. Advantages of OOP over structured programming and the four attributes of OOP (data encapsulation, data abstraction, inheritance, and polymorphism) will be discussed as well. Some C++ keywords will be reviewed before introducing the C++ class mechanism. A small, working C++ example will be reviewed to demonstrate how the attributes of OOP are utilized within C++ classes. (Prerequisite: working knowledge of a structured programming language such as C, FORTRAN, or Pascal).

Bio: Michael P. Redlich is a Senior Research Technician (formerly a Systems Analyst) at ExxonMobil Research & Engineering, Co. with extensive experience in developing custom web and scientific laboratory applications. Mike also has experience as a Technical Support Engineer for Ai-Logix, Inc. where he developed computer telephony applications. As a member of the Amateur Computer Group of New Jersey (ACGNJ), he dedicates much of his free time facilitating the monthly ACGNJ Java Users Group and serving as ACGNJ Secretary. He has a Bachelor of Science in Computer Science from Rutgers University. Mike's computing experience includes computer security, relational database design and development, object-oriented design and analysis, C/C++, Java, Visual Basic, FORTRAN, Pascal, MATLAB, HTML, XML, ASP, VBScript, and JavaScript in both the PC and UNIX environments.

3:40 pm to 4:35 pm

C++ Advanced Features

Michael Redlich, ExxonMobil Research & Engineering

Abstract: This in-depth seminar will cover some of the advanced features of C++. Four main topics will be presented: overloaded operators, templates, exception handling, and namespaces. Each of these topics will be individually discussed and a sample code will be reviewed to demonstrate how each feature is implemented. There will also be a brief introduction to the Standard Template Library. (Prerequisite: working knowledge of fundamental C++).

Bio: Michael P. Redlich is a Senior Research Technician (formerly a Systems Analyst) at ExxonMobil Research & Engineering, Co. with extensive experience in developing custom web and scientific laboratory applications. Mike also has experience as a Technical Support Engineer for Ai-Logix, Inc. where he developed computer telephony applications. As a member of the Amateur Computer Group of New Jersey (ACGNJ), he dedicates much of his free time facilitating the monthly ACGNJ Java Users Group and serving as ACGNJ Secretary. He has a Bachelor of Science in Computer Science from Rutgers University. Mike's computing experience includes computer security, relational database design and development, object-oriented design and analysis, C/C++, Java, Visual Basic, FORTRAN, Pascal, MATLAB, HTML, XML, ASP, VBScript, and JavaScript in both the PC and UNIX environments.

Room RC- H – Special

10:15 am to 11:10 am

Neural Network Stock Trading Systems

Donn Fishbein, Neuroquant

Abstract: Artificial neural networks and genetic algorithms provide a method for selecting and optimizing technical indicators in the development of stock trading systems. This talk will introduce these methods, and demonstrate their use in the development of a successful stock trading system. Trading

results from systems introduced in earlier TCF talks will also be reviewed.

Bio: Donn Fishbein is a physician and scientist who has been trading the financial markets for over 25 years. His interests lie in the study and development of mechanical trading systems, and in recent years his work has focused on the use of artificial neural networks and genetic algorithms. He believes that anyone can improve their trading results through the application of scientific methods. Some of his work is published on <neuroquant.com>.

11:20 am to 12:15 pm

Project Management

Donald Hsu, Dominican College

Abstract: Dice.com lists 3700+ project-related job openings daily! Topics include: CPM, GANTT, PERT, SOW, WBS, scope of the project, project overview statement, condition of satisfaction, team members, planning strategy, resources, budget variances, estimates, communication, the use of MS Project software, import/export files to MS Excel, MS Word, creating a master plan on the project server. Be there and bring a friend to learn more.

Bio: Donald Hsu has been a professor and a management consultant. He taught 70 subjects from Accounting to UNIX to 7100+. Donald is a paid consultant with 5 CEOs on global finance and E-Commerce projects. He has started and sold three firms, and has traveled to 53 countries (33 in Europe). He also has global connections to 1000 managers.

12:25 pm to 1:20 pm

Beyond the Internet—Much beyond and far far away

Leonard Sragow, New York Amateur Computer Club

Abstract: Maxi-mega stretch of imagination applied to speculating what life would be like in a society where all needed work is done by self-correcting devices and there is no scarcity of any kind. We'll see if this speculation about the distant future can be utilized to give us useful insights into contemporary society and our problems.

Bio: In addition to operating his own business, Leonard is a character actor, monologist and a teacher. He is on the board of directors of NYACC and has been part of the TCF speaker program for over ten years.

1:30 pm to 2:25 pm

Advanced Web Site Development using DHTML and CSS

Mike Barlow, GalaxE Solutions & ACGNJ Lotus Notes UG

Abstract: Ever see some snazzy web site do "fancy things" very fast? Things like showing or hiding blocks of text and/or images without making a laborious round trip back to the server? Such things are possible by using Dynamic HTML coding (DHTML) and Cascading Style Sheets (CSS). With DHTML and CSS some of the neatest effects can be done on

the web (Want to see a fade out from one web page to the next - or have a web page slide up from the lower right corner of the screen?). Coding techniques, examples of effects and more will be presented, along with links to a web site. These code examples will help you do this wizardry on your own web pages.

Bio: Mike Barlow has been a lecturer on various computer topics for over 20 years. Currently a Senior Developer at GalaxE Solutions based out of New York. Mike has spoken on topics ranging from Computer Viruses, to Memory Management to Advanced Web Architecture and Application development. Mike has been involved in high end web development since the early 1990's. Mike is the founder and current moderator for the ACGNJ Lotus Notes User Group and a past BOD member of the ACGNJ

3:40 pm to 4:35 pm

Ajax and Web 2.0

Mike Barlow, GalaxE Solutions & ACGNJ Lotus Notes UG

Abstract: The term Web 2.0 was started last year at a conference and has taken hold on the media and market place. Likewise AJAX (short for Asynchronous Javascript and XML) is considered by some to be one of the core technologies for "Next Generation" web applications. Come take a look at some of the applications which are already out there, which are forming the basis for the "World Wide Web Next Generation", and at the same time find out how YOU can get a foot up on developing your own AJAX applications in a "technology neutral" (e.g. NOT J2EE, NOT PHP, NOT ASP or .NET) Forum. Warning: a basic knowledge of Javascript and HTML will be advantageous to fully understand this presentation, but is not required.

Bio: Mike Barlow has been a lecturer on various computer topics for over 20 years. Currently a Senior Developer at GalaxE Solutions based out of New York. Mike has spoken on topics ranging from Computer Viruses, to Memory Management to Advanced Web Architecture and Application development. Mike has been involved in high end web development since the early 1990's. Mike is the founder and current moderator for the ACGNJ Lotus Notes User Group and a past BOD member of the ACGNJ.

Sunday April 23, 2006

Room RC-D – Internet

10:30 am to 11:30 am

From Java to C#.Net

Donald Hsu, Dominican College

Abstract: Java has been around for 6 years. Three million Java programmers worldwide are doing applications from cell phones to enterprise servers. What is next? C# (pronounced C sharp) programming!!! Microsoft started the Visual Studio

suite (C++, Visual Basic and C#) in 2002. MS Visual Studio 2005 and MS SQL server 2005 were recently released. Dice.com lists about 400 jobs in C# daily, paying big \$\$\$\$. What is all the fuss about? How do you get ready for this wonderful job? The speaker will address specific training and technical requirement of these issues.

Bio: Donald Hsu has been a professor and a management consultant. He taught 70 subjects from Accounting to UNIX to 7100+. Donald is a paid consultant with 5 CEOs on global finance and E-Commerce projects. He has started and sold three firms, and has traveled to 53 countries (33 in Europe). He also has global connections to 1000 managers.

11:40 am to 12:40 pm

Best Web Sites 2006

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Abstract: Eva's "Best Web Sites 2005" was incredible, but her "Best Web sites 2006" is awesome! She is continually researching for new, creative, definitive, well designed, interactive top sites, among the myriads of resources in the myriads of categories. TCF attendees have come to depend upon her yearly guide for up-to-date places in cyberspace and for search engines that exceed Google in many ways. Her guide will only be distributed to seminar attendees or those who contact her after April 23 at evakaplan@cs.com.

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12:50 pm to 1:50 pm

The Many Faces of Google

Joel May, UMDNJ Retired

Abstract: Google is arguably the most popular as well as the most powerful search engine available. But did you know that, in addition to searching the web, Google can do calculations, provide dictionary definitions, check airport and flight status, track FedEx and UPS packages, scan L.L. Bean catalogs and more? This presentation will show you how to use all the powerful features of this great search engine.

Bio: Joel has spent most of his adult life teaching, first the University of Chicago and, subsequently, at UMDNJ. He's been using computers since 1961, the Internet since 1974, PCs since 1979, and the World Wide Web since 1994.

2:00 pm to 3:00 pm

Public Policy Update: Clarifying the Federal Role in Ensuring Cybersecurity

Danielle and G. Arthur Mihram, University of Southern California & Princeton University

Abstract: The speakers will review and update the literature of tele-communications policy, particularly the calls [e.g.: 1) Kwok, CACM 46:98-101,X.03; and 2) Greenemeier, "Information Week", 24.1.05] for a governmental role in 'cybersecurity'. They will indicate the procedure by which tele-communications can be securely transmitted, yet in a manner alleviating concerns about privacy. Their proposal for a 'National Electronic Postal Service' would not just fulfill Congress's constitutional duty to provide, in our Age of Tele-Communications, for electronic post-offices and electronic post-roads. An essential feature of this national electronic postal service would be the issuing of secure electronic postmarks, which would provide a mechanism for copyright-protection.

Bio: Danielle Mihram serves as Director of the Center for Excellence in Teaching at the University of Southern California; her biographical sketch has appeared in Marquis's Who's Who of American Women. G. Arthur Mihram is located in Princeton, NJ and has had his biographical sketch appearing in Marquis's Who's Who in the World.

Room RC-E – Applications

10:30 am to 11:30 am

Controlling the World with PICs

Paul Bergsman, Consultant

Abstract: Microchip manufacturers produce small, stand-alone, microcontrollers called "PICs". They are very inexpensive and widely available. These vesicle chips can be configured as a tachometer, frequency counter, matrix-keypad decoder, tone generator, stepping motor controller, servo motor controller and lots more. Paul Bergsman uses slides and live demonstrations to explain PIC operations.

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11:40 am to 12:40 pm

Buying a Digital Camera

Jacob Freedman, WBZC-FM

Abstract: The goal of this open forum is to help TCF 2006 attendees buy their first, second, etc. digital camera. The decision making process of purchasing a digital camera is based on a series of varying personal need evaluation

techniques and purchasing tricks that will lead you to a "hopefully" good digital imaging purchase and experience. The discussion will consist of mostly an extended Q&A, with possible "stop by" visits by Manufacturer Reps.

Bio: Jacob Freedman has worked with varying types of imaging devices for 30+ years and has an employment background in computer/consumer electronics sales and customer/technical support. Jacob is the host/engineer/producer of the radio show Sunday Morning Klezmer and Other Jewish Music, on WBZC-FM (88.9 FM/Chatsworth & 95.1 FM, in S. Jersey and S.E. PA and <http://www.angelfire.com/nj/WBZCFMsndymrnngklzmr/newjersey/njindex.html>), since 1995. He is also available online @ Z889.com. He uses a 1 GHz ATI eMac and some relatively inexpensive peripherals and software to produce his show. Jacob is the former, SIG coordinator for the South Jersey Apple/Mac User Group (SJAUG) and the SIG Leader for all things Audio.

12:50 pm to 1:50 pm

VoIP For Dummies - How to Choose the best VoIP Plan

Joe Budelis, Persimmon Telecommunications

Abstract: Many think that VoIP is the future of voice phone service. The presentation will discuss what VoIP offers and, practically speaking, what it can do for you. A little history will be given and pros and cons of some current implementations will be indicated. At the very least, from this presentation, you will learn many of the things that you might wish to consider when you decide to go with a VoIP service.

Bio: Joe Budelis performed IT or Business consulting with such diverse assignments as Senior Financial Analyst, SAS Data Analyst, Business Infrastructure Manager, and Data Base Administrator. Currently, Joe assists businesses to find cost-effective Telecommunications solutions; primarily consulting on, and selling, such services as T1 and DS3 voice and data, high speed internet access and VoIP phone service. For more information see his blog at <http://joebudelis.blogspot.com>. Joe has a Harvard Ph.D. in Decision and Control.

2:00 pm to 3:00 pm

Making Printed Circuit Boards

Paul Bergsman, Consultant

Abstract: Over the years, Paul Bergsman has developed a very inexpensive process for producing professional quality printed circuit boards. He uses non-crippled commercial "demo" software to 1) draw the circuit, 2) analyze the circuit, and 3) create the printed circuit board artwork. Paul has also developed several simple methods for reliable transfer of artwork to printed circuit boards.

Bio: Paul Bergsman is the author of "Controlling The World With Your PC", and was a Technology-Education teacher for La Salle College High School. Paul also operates a small business, which designs and manufactures printed circuit

boards, and he occasionally teaches part time for the Community College of Philadelphia. He relaxes with folk music, folk dancing, amateur radio (N3PSO), cycling, or a good game of chess.

Room RC-F – Technology

10:30 am to 11:30 am

The Apollo Guidance Computer: Architecture & Operation

Frank O'Brien, Infoage Science/History Learning Center

Abstract: Perhaps the single spacecraft component that assured the success of the Apollo lunar missions was its guidance computer. Created in the 1960's when most computers filled an entire room, the Apollo Guidance Computer (AGC) was small, low power, and included capabilities that are advanced by today's standards. The Infoage Science and Learning Center has acquired an early AGC as part of its History of Computing Technologies collection. We will be discussing the computers hardware and software architecture, interfaces and how designers overcame its limitations. Additionally, we will cover the user interface and operations required for a flight from the Earth to the Moon. Attendees will get the opportunity to examine the AGC, its components and review its source code.

Bio: Frank O'Brien is a volunteer Apollo historian for NASA, primarily as a researcher for the Apollo Lunar Surface Journal, and is co-editor of the Apollo Flight Journal. He was responsible for preparing the Lunar Module Simulator and other artifacts for exhibition at the Cradle of Aviation Museum (Long Island, NY), and is an associate director at the Infoage Science/History Learning Center.

11:40 am to 12:40 pm

What's Next for Robot Hobbyists?

Steve Dilliplane, Dilliplane Interactive

Abstract: Robots have fascinated scientists, mathematicians, engineers and technologists since "Rossum's Universal Robots" introduced the term in the early 1920's. Commercial off-the-shelf (COTS) robot technology has progressed immensely since then. Today's basement-shop inventors, hackers and hobbyists enjoy a rich variety of devices, components and subsystems to feed their creative imaginations. In a modern world dominated by the effects of Moore's Law, how have Asimov's Laws of Robotics fared? This session looks at the past, present and possible future of hobby robotics. Come explore what's available, what people like you are doing with it and how to learn more. Is a hands-on robotics club coming to a library near you?

Bio: Dilliplane is a robotics mentor in the LEGO Mindstorms/Robolab program at Plainsboro Public Library. He is an IEEE Senior Member.

12:50 pm to 1:50 pm

Podcasting - How to Produce Your Own Podcast

Michael Smith, Mike Tech Show

Abstract: Michael Smith will cover: what is a podcast, how to subscribe, topic areas, recording, post production tasks, RSS (What you need to know), hosting your files, marketing (how to get people to listen), can you make money (advertising), and more. See <http://miketechshow.com/mybio.htm> - for more information.

Bio: Mike Smith, host of the Mike Tech Show Podcast, works as the Manager of Distributed Computing for a large propane distributor. Mike is a graduate of Drexel University and has been working with computers since the early days of the Texas Instrument's TI-99/4A home computer in 1982. Mike's podcast is about all things technology and computer related. He discusses cool sites, software, and tips and tricks that will make you more productive at home and work. He reviews problems and solutions that he has encountered at home, work, and business consulting that he does in his off-hours.

2:00 pm to 3:00 pm

Using the Eclipse Integrated Development Environment

Barry Burd, Drew University, Department of Mathematics & Computer Science

Abstract: Eclipse is quickly becoming the tool of choice for people developing programs in Java, C++, and other languages. In addition, Eclipse hosts a variety of "non-geek" applications, including Instant Messaging, Process Scheduling, Business Intelligence Reporting and others. This session introduces you to Eclipse's code development tools, and shows you how to quickly and efficiently develop computer applications.

Bio: Barry Burd is a professor in the Department of Mathematics and Computer Science at Drew University in Madison, New Jersey. When he's not lecturing at Drew University, Barry leads training courses for professional programmers in business and industry. He has lectured at conferences in America, Europe, Australia and Asia. He is the author of several articles and books, including "Java 2 For Dummies" and "Eclipse For Dummies," both published by Wiley.

Room RC-G - Software/Networks

10:30 am to 11:30 am

Introduction to Java

Michael Redlich, ExxonMobil Research & Engineering

Abstract: This seminar is an introduction to the Java programming language. Java is an object-oriented programming (OOP) language created by James Gosling at Sun Microsystems. Since knowledge of OOP is vital in the development of robust applications, the OOP paradigm will be introduced. Advantages of OOP over structured programming and the four attributes of OOP (data encapsulation, data

abstraction, inheritance, and polymorphism) will be discussed as well. Some Java keywords will be reviewed before introducing the Java class mechanism. A small, working Java example will be reviewed to demonstrate how the attributes of OOP are utilized within Java classes. (Prerequisite: working knowledge of a structured programming language such as C, FORTRAN, or Pascal).

Bio: Michael P. Redlich is a Senior Research Technician (formerly a Systems Analyst) at ExxonMobil Research & Engineering, Co. with extensive experience in developing custom web and scientific laboratory applications. Mike also has experience as a Technical Support Engineer for Ai-Logix, Inc. where he developed computer telephony applications. As a member of the Amateur Computer Group of New Jersey (ACGNJ), he dedicates much of his free time facilitating the monthly ACGNJ Java Users Group and serving as ACGNJ Secretary. He has a Bachelor of Science in Computer Science from Rutgers University. Mike's computing experience includes computer security, relational database design and development, object-oriented design and analysis, C/C++, Java, Visual Basic, FORTRAN, Pascal, MATLAB, HTML, XML, ASP, VBScript, and JavaScript in both the PC and UNIX environments

11:40 am to 12:40 pm

Title: Java Advanced Features

Michael Redlich, ExxonMobil Research & Engineering

Abstract: This in-depth seminar will cover some of the advanced features of Java. Four main topics will be presented: applets and applications, exception handling, JavaBeans, and Java Database Connectivity (JDBC). Each of these topics will be individually discussed and a sample code will be reviewed to demonstrate how each feature is implemented. There will also be a brief introduction to the Java 2 Collections. Prerequisite: working knowledge of fundamental Java.

Bio: Michael P. Redlich is a Senior Research Technician (formerly a Systems Analyst) at ExxonMobil Research & Engineering, Co. with extensive experience in developing custom web and scientific laboratory applications. Mike also has experience as a Technical Support Engineer for Ai-Logix, Inc. where he developed computer telephony applications. As a member of the Amateur Computer Group of New Jersey (ACGNJ), he dedicates much of his free time facilitating the monthly ACGNJ Java Users Group and serving as ACGNJ Secretary. He has a Bachelor of Science in Computer Science from Rutgers University. Mike's computing experience includes computer security, relational database design and development, object-oriented design and analysis, C/C++, Java, Visual Basic, FORTRAN, Pascal, MATLAB, HTML, XML, ASP, VBScript, and JavaScript in both the PC and UNIX environments

12:50 pm to 1:50 pm

iTunes for iDiot

David Ciotti, The College of New Jersey

Abstract: Downloading, ripping, burning, converting, transferring, everything you always wanted to know about iTunes but were afraid to ask.

Bio: David Ciotti works for the School of Engineering at The College of New Jersey. He has been the Macintosh Technical support for Mercer County Community College and has taught Troubleshooting and Maintaining your Macintosh for CompuMaster.

2:00 pm to 3:00 pm

Introduction to Photography in the Digital Age

Bill Achuff, User Group Alliance/Achuff Photography

Abstract: Bill Achuff will discuss a wide range of digital photography related topics from how to shop for a digital camera, to how to use it to its fullest potential, to cell phone photography and Internet photo sharing services. The terminology surrounding digital photography will be explained in a simple and easy to understand manner. He'll also explore converting old photos from film, slides or print to digital and how to convert digital photos into works of art.

Bio: Bill is a photographer for Journal Register, publishers of more than thirty local and regional daily, weekly and monthly newspapers. He has tested and reviewed dozens of cameras for a variety of publishers including MacDesign. He has written articles for Photoshop User and other photography magazines. He has also presented training sessions for a variety of software applications, which digital photographers and artists typically use when working with photos.

RC-H – Amateur Radio

2:00 pm to 3:00 pm

Antique Computing for Fun and Education

Evan Koblentz, Mid-Atlantic Retro Computing Hobbyists (MARCH)

Abstract: The “vintage computing” hobby is booming around the world. MARCH is a regional club devoted to fostering the hobby and preserving history. We're currently constructing a computer museum and we're hosting a major antique computing show in May 2006. Come to this lecture to learn all about the hobby and how you can get involved.

Bio: Evan Koblentz, is president of MARCH <http://www.marchclub.org> and is editor of the two year old Computer Collector Newsletter, <http://news.computercollector.com>.

Poster Sessions

Saturday, April 22nd, 2006
Student Center Building, First Floor
Time 10:30am – 3:30pm

How to Network Without Falling on Your Face

Michael Goldberg , Building Blocks Consulting

Abstract: Creating relationships are essential to being successful in today's business world. Most people are not born networkers; they develop the skills through education, training, the right attitude, and long practice. Whether attending a meeting, making a sales call, or interacting in a business setting, it's not who you know but who you want to know. This session provides many of the skills in greeting people, handing out your card, asking for their cards, listening, excusing yourself, and introducing yourself to others. Additional discussions will focus on emotional based marketing, target markets, and how to 'work a room.'

Bio: Michael Goldberg is a speaker, trainer, and consultant, focused on helping business owners, sales professionals, and managers grow their businesses. He has developed work teams and management in a number of industries including retail, financial services, manufacturing, distribution, and information technology since 1983. Michael has extensive expertise in the areas of Leadership, Customer Service, Communication, Public Speaking, Career Focus, and Networking. Michael received his Masters degree in Training and Organization Development from Lesley and is on the National Board of Advisory for the National Speaker's Association.

Human-Edited References on the Web

Joseph Wetterling, Consultant

Abstract: As the web grows faster and faster, computer-driver search engines have a harder time providing useful information and commercial sites with paid staff simply can't keep up. While the comprehensiveness and usability of many directories and search engines suffer, thousands of net-citizens work together to form 100%-human-edited information sources. Sites like The Open Directory Project and Wikipedia have become important and relevant sources of information online. This presentation will overview the successes and challenges of human-edited online references.

Bio: Joseph Wetterling has been involved in adult IT and business education since 1997, as a course developer, instructor.

Ubuntu Linux: What's New for 2006

Og B. Maciel

Abstract: Ubuntu is a complete Linux-based operating system, freely available with both community and professional support. The Ubuntu community is built on the ideas enshrined in the Ubuntu Philosophy that software should be available free of charge, software tools should be usable by people in their local language and despite any disabilities, and that people should have the freedom to customize and alter their software in whatever way they see fit. These freedoms make Ubuntu fundamentally different from traditional proprietary software: not only are the tools you need available free of charge, you have the right to modify your software until it works the way you want it to. The new version of Ubuntu, code named Dapper Drake, is the product of 6 months of tremendous effort by the entire Ubuntu community. It includes the latest and greatest software the Open Source community has to offer into a coherent and easy to use distribution.

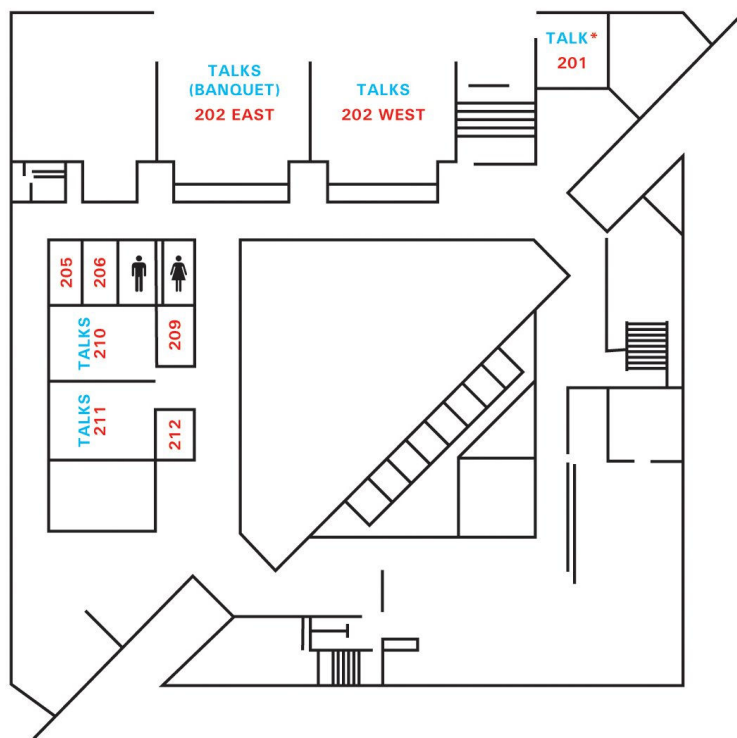
Reporting and Defending Computer Crime

Jef Henninger, Esq. Jack Venturi & Associates

Saturday Room RC E, 3:40 pm to 4:35 pm

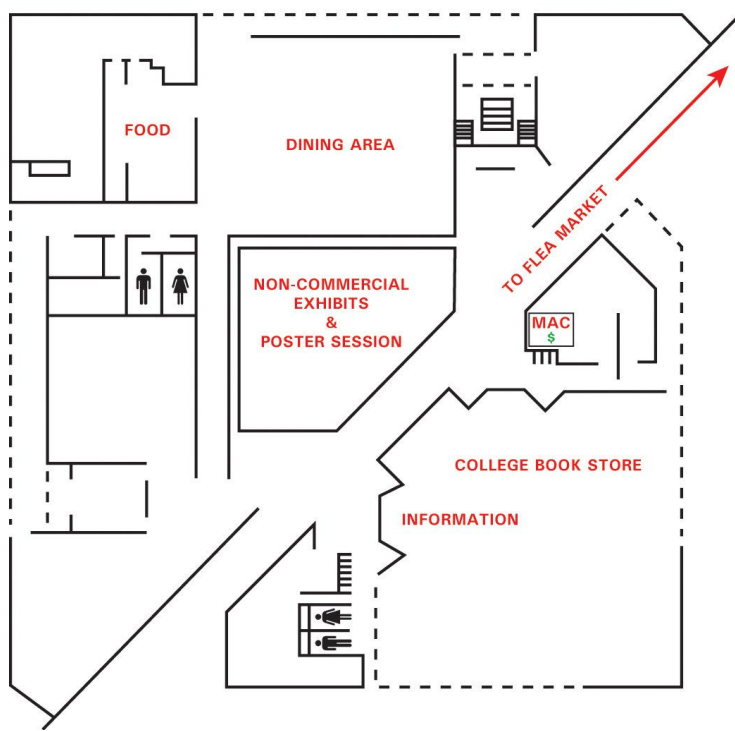
Abstract: A vast amount of computer crime goes unreported by both individuals and companies because the victim doesn't know how to proceed or is afraid to get involved. Learn what to do before you become a victim, who to call when you are one, what to expect as a witness before and at a trial, interacting with the prosecuting authority, and other tips to make the prosecution a success. On the opposite side of the law, defendants charged with computer crimes face an uphill battle at trial because most lawyers have a computer phobia which causes almost all cases to end in a guilty plea. These crimes are ensnaring more innocent people than any other type of crime. Learn how to protect yourself when you are suspected of committing a computer crime.

Bio: Jef Henninger is a criminal defense attorney with the firm of Jack Venturi & Associates in New Brunswick, New Jersey. He has been studying computer crime since 1990 and is the author of "Investigating and Prosecuting Cases Involving Hacking and the Computer Underground" and "The Trojan Horse Defense in Computer Crime Cases." He is also a frequent lecturer on the topics of computer forensics and reporting and defending computer crime. For more information, visit www.jackventurilaw.com.



Saturday Poster

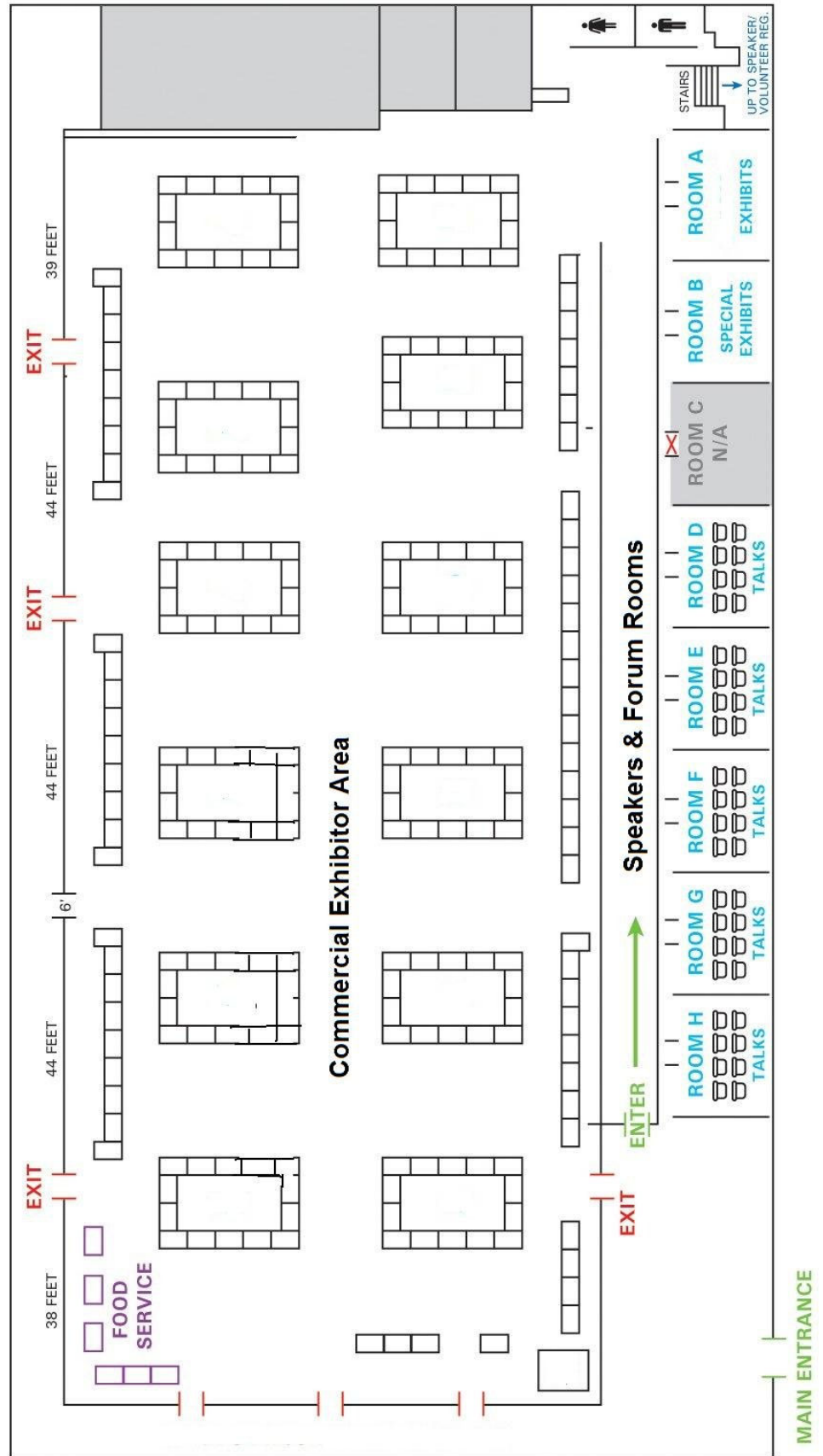
Talks & Forums - Student Center – Second Floor

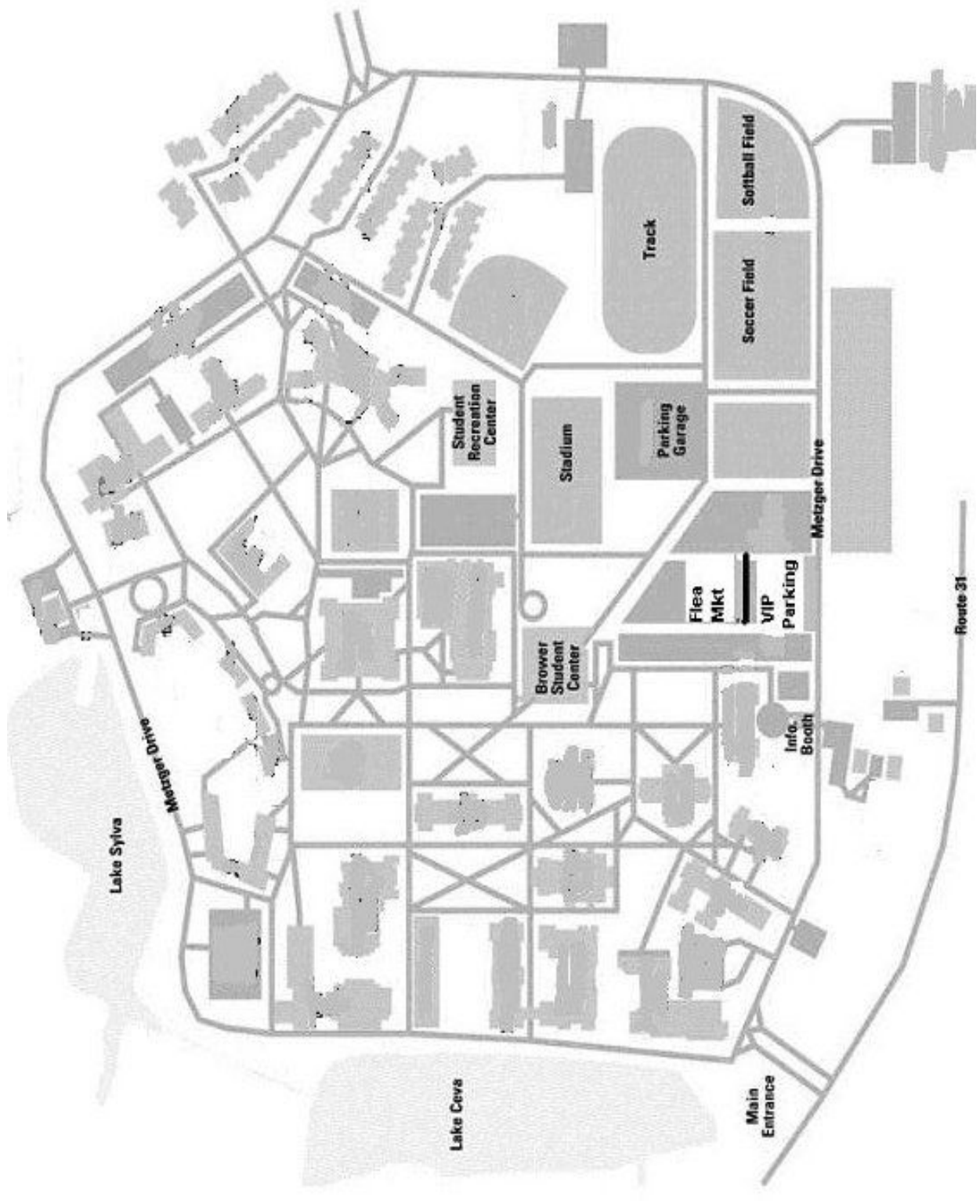


Non-commercial Exhibits & Poster Session – Student Center – First Floor

Map of Recreation Center

TRENTON COMPUTER FESTIVAL EXHIBIT HALL





Campus Map

Student Center, Recreation Center (Exhibitors), Flea Market & Parking areas